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- SYSTEM SERVICE DEASSIGN I/O CHANNEL SYSDASSGN Table of contents 16-SEP-1984 01:55:33 VAX/VMS Macro V04-00 Page 0 (2) 134 DEASSIGN I/O CHANNEL

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- SYSTEM SERVICE DEASSIGN I/O CHANNEL
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16-SEP-1984 01:55:33 VAX/VMS Macro V04-00 5-SEP-1984 03:50:20 [SYS.SRC]SYSDASSGN.MAR;1

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.TITLE SYSDASSGN - SYSTEM SERVICE DEASSIGN I/O CHANNEL .IDENT 'V04-000'

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D. N. CUTLER 26-AUG-76

MODIFIED BY:

V03-015 HH0049 Hai Huang 16-Aug-1984 Retract HH0048. Device deallocation on dismount will be done in the file systems and IOC\$DISMOUNT.

V03-014 HH0048 Hai Huang 15-Aug-1984 Deallocate the device on last channel deassign if the device owner has gone away.

V03-013 ACG0441 8-Aug-1984 15:16 Andrew C. Goldstein, Remove foreign dismount logic (moved to DISMOUNT)

V03-012 HH0033 06-Jul-1984 Hai Huang Do foreign volume cleanups if the device is allocated to the top level process in the process tree.

V03-011 HH0023 05-Jun-1984 Hai Huang Correctly handle last channel deassign on an allocated device.

LMP0221 L. Mark Pilant, 30-Mar-1984 1 Change ULB\$L_OWNUIC to ORB\$L_OWNER and UCB\$W_VPROT to ORB\$W_PROT. V03-010 LMP0221 30-Mar-1984 15:42

ACG0399 Andrew C. Goldstein, 24-Feb-1984 22:59 Incorporate I/O database locking rewrite, move LAST_CHAN routine to IOSUBNPAG so it can be shared by DEALLOCATE,

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- SYSTEM SERVICE DEASSIGN I/O CHANNEL
                                                      16-SEP-1984 01:55:33 VAX/VMS Macro V04-00 
5-SEP-1984 03:50:20 [SYS.SRC]SYSDASSGN.MAR;1
                                                                                                                        Page
                 58
59
      0000
                                          correct flow in deallocating device on dismount.
      ŎŎŎŎ
      0000
                 60
                               V03-008 CDS0001
                                                                                               22-Sep-1983
                                                               Christian D. Saether
      0000
                                          Move deallocate on dismount action here from ioc$dismount
                 61
                 62
63
      0000
                                          so that the device deallaction does not occur until
      0000
                                          the last channel goes away.
      0000
      0000
                 65
                                          JLV0301 Jake VanNoy 30-JUL-1983 Add second call to IOC$VERIFYCHAN to prevent double
                               V03-007 JLV0301
      0000
                 66
      0000
                 67
                                          deassign.
      0000
                 68
      0000
                 69
                               V03-006 TCM0002
                                                               Trudy C. Matthews
                                                                                               28-Jun-1983
      0000
                 70
                                          Small change to interface to EXESUNLOCK_DEV.
                71
72
73
      0000
      0000
                               V03-005 R0W0189
                                                               Ralph O. Weber
                                                                                               21-JUN-1983
                                         Correct action taken upon discovery of a pending kernel mode AST during 'wait for all outstanding I/O to finish' logic. Change method for lowering IPL to O from SETIPL to REI. The intent of lowering IPL is to allow the kernel mode AST to be delivered. However, the AST will be delivered only if IPL is lowered via an REI. (Only the REI instruction delivers AST 'interrupts.')
      0000
      0000
                 75
76
      0000
      0000
                 77
      0000
                 78
      0000
                 79
      0000
      0000
                 80
      0000
                 81
                               V03-004 TCM0001
                                                               Trudy C. Matthews
                                                                                               17-May-1983
                 82
83
      0000
                                          Dequeue cluster-wide lock on last channel de-assign.
      0000
      0000
                               V03-003 R0W0170
                                                               Raiph O. Weber
                                                                                               12-MAR-1983
      0000
                 85
                                          Reorder actual deassignment logic to be consistant with the
      0000
                 86
                                          notion that the mailbox driver should perform all mailbox
                                          dependent processing in its cancel I/O routine. Setup use of CANSC_AMBXDGN cancel reason code to signal mailbox driver when
      0000
                 87
      0000
                 88
      0000
                 89
                                          it is being called due to last reference deassignment on an
      0000
                 90
                                          associated mailbox.
      0000
                 91
                 92
93
      0000
                               V03-002 ROW0127
                                                               Ralph O. Weber
                                                                                                5-0CT-1982
      0000
                                          Make changes required to use new UCB creation and deletion
                                          routines in UCBCREDEL. Modify the delete-UCB check at the end of this module to call IOCSDELMBX if the device independent
                 94
      0000
                 95
      0000
                 96
97
      0000
                                          characteristics indicate a mailbox or call IOC$DELETE_UCB if
      0000
                                          the device independent characteristics do not indicate a
                 98
                                          mailbox.
      0000
                 99
                100
                               V03-001 KDM0002
                                                                                               28-Jun-1982
                                                               Kathleen D. Morse
                101
                                          Added $DEVDEF.
                102
               103
                       SYSTEM SERVICE DEASSIGN I/O CHANNEL
               104
      0000
                105
                       MACRO LIBRARY CALLS
      0000
               106
      0000
               107
      ŎŎŎŎ
               108
                                                                          :DEFINE CANCEL REASON CODES
                               SCANDEF
      0000
               109
                                                                          DEFINE CCB OFFSETS
                               $CCBDEF
      0000
               110
                                                                          :DEFINE DDB OFFSETS
                               SDDBDEF
      0000
                                                                          DEFINE DOT OFFSETS
               111
                               $DDTDEF
```

:DEFINE DEVICE TYPES

:DEFINE I/O FUNCTION CODES

DEFINE INTERRUPT PRIORITY LEVELS

112 113

114

SDEVDEF

\$10DEF

\$IPLDEF

0000

0000

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SYSDASSGN VO4-000	- SYSTEM S	ERVICE	DEASSIGN I/O C	C 7 HANNEL 16-SEP-1984 5-SEP-1984	01:55:33	VAX/VMS Macro V04-00 Page ESYS.SRCJSYSDASSGN.MAR;1	3 (1)
	0000 0000 0000 0000 0000 0000 0000 0000 0000	125	\$JIBDEF SORBDEF SPCBDEF SPRDEF SRSNDEF SSSDEF SUCBDEF LOCAL SYMBOLS ARGUMENT LIST	OFFSET DEFINITIONS	DEFINE DEFINE DEFINE DEFINE	JIB OFFSETS OBJECT'S RIGHTS BLOCK OFFSETS PCB OFFSETS PROCESSOR REGISTERS E RESOURCE WAIT NUMBERS E SYSTEM STATUS VALUES UCB OFFSE'S	
	00000004 0000 0000 0000 0000	126 127 128 129 130 131 132	CHAN=4	AEXENONPAGED	;1/0 CH	HANNEL NUMBER	

**|

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04 AC

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- SYSTEM SERVICE DEASSIGN I/O CHANNEL DEASSIGN I/O CHANNEL
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16-SEP-1984 01:55:33 VAX/VMS Macro V04-00 
5-SEP-1984 03:50:20 [SYS.SRC]SYSDASSGN.MAR;1
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```
134
135
                            .SBTTL DEASSIGN I/O CHANNEL
     ŎŎŎŎ
     0000
                  : EXESDASSGN - DEASSIGN I/O CHANNEL
     0000
             137
     0000
             138
                    THIS SERVICE DEASSIGNS A PREVIOUSLY ASSIGNED I/O CHANNEL AND CLEARS THE LINKAGE AND CONTROL INFORMATION IN THE CORRESPONDING CHANNEL CONTROL BLOCK.
     0000
             139
     0000
                     IF ANY I/O IS OUTSTANDING ON THE CHANNEL IT IS CANCELLED. IF A FILE IS
     0000
             141
                     OPEN ON THE CHANNEL IT IS CLOSED. IF A MAILBOX WAS ASSOCIATED WITH THE
             142
                    DEVICE WHEN IT WAS ASSIGNED. THE LINKAGE TO THE MAILBOX IS CLEARED. IF THE THE CHANNEL IS LAST ONE ASSIGNED TO THE DEVICE AND IT IS MARKED FOR DIS-
     0000
     0000
     0000
                    MOUNT, THEN THE DISMOUNT IS COMPLETED.
             144
     0000
             145
             146
     0000
                    INPUTS:
     0000
     0000
             148
                            CHAN(AP) = NUMBER OF THE I/O CHANNEL TO DEASSIGN.
     0000
             149
     0000
             150
                            R4 = CURRENT PROCESS PCB ADDRESS.
             151
     0000
             152
153
154
155
     0000
                    OUTPUTS:
     0000
     0000
                            RO LOW BIT CLEAR INDICATES FAILURE TO DEASSIGN CHANNEL.
     0000
     0000
                                     RO = SS$_IVCHAN - INVALID CHANNEL NUMBER SPECIFIED.
     0000
             158
     0000
                                     RO = SS$_NOPRIV - SPECIFIED CHANNEL IS NOT ASSIGNED TO A
     0000
             159
                                               DEVICE UR THE CALLER DOES NOT HAVE SUFFICIENT
     0000
             160
                                               PRIVILEGE TO ACCESS THE CHANNEL.
     0000
             161
     0000
             162
163
                            RO LOW BIT SET INDICATES SUCCESSFUL COMPLETION.
     0000
     0000
             164:
                                     RO = SS$_NORMAL - NORMAL COMPLETION.
     0000
             165 ;-
     ŎŎŎŎ
             166
                                     EXESDASSGN, M<R2,R3,R4,R5,R6,R7,R8>
CHAN(AP),R5; GET CHANNE
     0000
                            .ENTRY
             167
     0002
30
             168
                            MOVZWL
                                                                   :GET CHANNEL NUMBER
     0006
             169
                            MOVL
                                     R5,R0
                                                                   COPY I/O CHANNEL NUMBER
3Ŏ
     0009
             170
                                     IOCSVERIFYCHAN
                                                                   VERIFY CHANNEL NUMBER
                            BSBW
Ĕ9
D0
     0000
             171
                                     RO,50$
                                                                   : IF LBC INVALID CHANNEL
                            BLBC
     ÖÖÖF
             172
                                     R1,R6
R2,R7
                                                                   COPY ADDRESS OF CCB
                            MOVL
     0012
             173
D0
                            MOVL
                                     #CÁNSC_DASSGN,-(SP)
R5,-(SP)
9Ă
     0015
             174
                                                                   PUSH DEASSIGN CODE
PUSH CHANNEL NUMBER
                            MOVZBL
30
     0018
             175
                            MOVZWL
     001B
FB
                                     #2,EXESCANCELN
             176
                            CALLS
                                                                   :CANCEL I/O ON CHANNEL
     0022
             177
     ŎŎŽŽ
                              Channel is verified again. This is because the $CANCEL could have activated a kernel mode AST routine which did another
             178
     0022
             179
     0022
             180
                              $DASSGN. (This can happen in $BRKTHRU, for example)
     0022
             181
             182
183
     0022
                            MOVL
                                     R5,R0
                                                                   :COPY I/O CHANNEL NUMBER
30
     0025
                                     IOCSVERIFYCHAN
                                                                   VERIFY CHANNEL NUMBER
                            BSBW
Ē9
     0028
                                     RO,50$
                                                                   : IF LBC INVALID CHANNEL
             184
                            BLBC
                                     CCBSL_WIND(R6)
DS
     002B
             185 20$:
                            TSTL
                                                                   :FILE ACCESSED ON CHANNEL?
13
     002E
             186
187
                            BEQL
                                                                   IF EQL NO
                                     #35,R5,#10$_DEACCESS
R0,30$
#$$$_FILNOTACC,R0
     0030
                            $QIOW_S
                                                                   DEACCESS FILE
E8
     004B
             188
                            BLBS
                                                                   IF LBS SUCCESSFUL COMPLETION
ΒĪ
             189
                                                                   NO FILE ACCESSED?
                            CMPW
     004E
     0053
             190
                            BNEQ
                                                                   ; IF NEQ NO
```

SY

- SYS	STEM SERVICE DEASSIGN I/O SIGN I/O CHANNEL	E 7 CHANNEL 16-SEP-1984 01 5-SEP-1984 03	:55:33 VAX/VMS Macru VO4-00 Page 5:50:20 [SYS.SRC]SYSDASSGN.MAR;1 (2)
7E DC 0A A6 B5 18 13 50 13 DB 0C 13 50 01 3C FF93 30	0055 191 308: MOVPSI 0057 192 SETIPI 005A 193 TSTW 005D 194 BEQL 005F 195 SETIPI 0062 196 MFPR 0065 197 BEQL 0067 198 MOVZWI 006A 199 BSBW 006D 200 408: SETIPI	#IPL\$_ASTDEL CCB\$W_IOC(R6) 60\$. #IPL\$_SYNCH #PR\$_ASTLVL,R0 55\$. #RSN\$_ASTWAIT,R0 SCH\$RWAIT	:SAVE CURRENT PROCESSOR STATUS :RAISE TO AST DELIVERY LEVEL :ANY I/O STILL OUTSTANDING? :IF EQL NO :RAISE TO SYNCHRONIZATION LEVEL :READ CURRENT AST LEVEL :IF EQL KERNEL AST QUEUED :SET AST WAIT RESOURCE WAIT NUMBER :WAIT FOR AST :ALLOW INTERRUPTS
B9 11 04 B5 AF 9F 02	006D 200 40\$: SETIPL 0070 201 BRB 0072 202 50\$: RET 0073 203 0073 204 55\$: PUSHAE 0076 205 REI 0077 206 0077 207;	20\$ B^20\$:ALLOW KERNEL AST TO BE DELIVERED :AND CONTINUE AT 20\$
FF86° 30 55 66 D0 09 A6 94	0077 208 : DEASSIGN CH/ 0077 209 : 0077 210 60\$: BSBW 007A 211 MOVL 007D 212 CLRB 0080 213 :	SCH\$IOLOCKW CCB\$L_UCB(R6),R5 CCB\$B_AMOD(R6)	:LOCK I/O DATABASE FOR WRITE ACCESS :GET ASSIGNED DEVICE UCB ADDRESS :DEASSIGN CHANNEL
19 08 A6 00 E1 53 55 00 55 60 A5 00 10 13 08 38 A5 14 E1 60 A3 04 50 A5 B7 03 12 FF62' 30	0080 214 ; CHECK IF CHA 0080 215 ; 0080 216 BBC 0085 217 0085 218 MOVL 0088 219 MOVL 008C 220 BEQL 0093 222 BBC 0093 222 CLRL 0093 225 BNEQ 0096 224 DECW 0099 225 BNEQ 0098 226 BSBW 009E 227 009E 228 009E 229 ; 009E 230 : DECREMENT RE	WCCB\$V_AMB, - CCB\$B_STS(R6), 70\$ R5, R3 UCB\$L_AMB(R5), R5 70\$ #DEV\$V_MBX, - UCB\$L_DEVCHAR(R5), 70\$ UCB\$L_AMB(R3) UCB\$L_AMB(R3) UCB\$W_REFC(R5) 70\$ IOC\$LAST_CHAN_AMBX	<pre>; Branch if no MBX associated ; by this channel. ; Copy address of device UCB. ; Get associated mailbox UCB address. ; Branch if none. ; Branch if associated device is</pre>
55 66 D0 5C A5 B7 0D 12		EFERENCE LOUNT ID PROCESS LAST CHANNEL DEA CCB\$L_UCB(R6), R5 UCB\$W_REFC(R5) 80\$	ASSIGN ; Get device UCB address back. ; Decrement device reference count. ; Branch if not very last reference.
10 3C A5 D4 10 3C A5 00 E1 FF4F' 30 0B 11	00A6 237 : Handle ref of 00A6 238 ; 00A6 239 CLRL 00A9 240 BBC 00AE 241 00AE 242 BSBU 00B1 243 BRB 00B3 244 :	Count reaching zero. UCB\$L PID(R5) #DEV\$V CLU, - UCB\$L DEVCHAR2(R5),100\$ IOC\$URLOCK_DEV 100\$	<pre>; Dequeue cluster-wide device lock. ; Do rest of last channel deassign</pre>
5C A5 01 B1	0083 245; Check for la 0083 246; 0083 247 80\$: CMPW	#1, UCB\$W_REFC(R5)	allocated device ; UCB reference count one?

SYSDASSGN V04-000					- SY DEAS	STEM S	SERVICE 1/0 CH	E DEASSIGN I/O CI ANNEL	F 7 HANNEL	16-SEP-1984 5-SEP-1984	01:55:33 03:50:20	3 VAX/VMS Macro VO4-00 CSYS.SRCJSYSDASSGN.MAR;1	Page	6 (2)
				0B	12	00B7 00B9	248 249	BNEQ	110\$; If	not one, branch to finish r	equest	
	06	38	A5	17	E1	00B9 00BF	250 251 252 253	BB C .	#DEV\$V_ALUCB\$L_DEV	LL - VCHAR(R5), 1	10 \$; If	device not allocated, anch to finish request.		
						00BE 00BE 00BE 00BE	253 254 255	Call driver's if appropriate	cancel I e, delete	/O routine w UCB	ith CANSO	C_DASSGN reason code and		
			52	57 FF3C'	00 30	00BE 00C1 00C4	256 257 258	100\$: MOVL BSBW	R7,R2 IOCSLAST	_CHAN	; Get ; Do	t channel index common last channel deassig	n.	
						0004	259 260	SET STATUS AND	DEXIT					
			50	01 FF36'	3C 31	00C4 00C7	2555789012345 25555555665 22222222	110\$: MOVZWL BRW	#SS\$ NOR!		; Set ; Uni	t normal completion. lock I/O data base and retur	n.	
						00CA 00CA 00CA	265	.END						

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SYSDASSGN
                                       - SYSTEM SERVICE DEASSIGN I/O CHANNEL
                                                                                         16-SEP-1984 01:55:33 VAX/VMS Macro V04-00
                                                                                                                                                     Page
                                                                                          5-SEP-1984 03:50:20 [SYS.SRC]SYSDASSGN.MAR;1
 Symbol table
                                                                                                                                                             (2)
                                      = 00000001
CANSC_DASSGN
CCBSB_AMOD
CCBSB_STS
CCBSL_UCB
CCBSL_WIND
CCBSV_AMB
                                      = 00000001
                                      = 00000009
                                      = 00000008
                                      = 00000000
                                      = 00000004
                                      = 00000000
CCB$W_10C
                                      = 0000000A
CHAN
                                      = 00000004
DEVSV_ALL
DEVSV_CLU
DEVSV_MBX
                                      = 00000017
                                      = 00000000
                                      = 00000014
EXESCANCELN
                                        00000000 RG
EXESDASSGN
10$_DEACCESS
                                      = 00000034
IOCSLAST_CHAN
IOCSLAST_CHAN_AMBX
                                                          20
20
20
20
20
20
20
                                        ******
IOCSUNLOCK
                                        ******
 IOCSUNLOCK_DEV
                                        ******
 IOCSVERIFY CHAN
                                        ******
IPLS_ASTDEL
IPLS_SYNCH
PRS_ASTLVL
PRS_IPL
                                      = 00000002
                                      = 00000008
                                      = 00000013
                                      = 00000012
RSNS_ASTWAIT
                                      = 00000001
SCH$TOLOCKW
                                                          02
                                        ******
SCHSRWALT
                                        ******
SS$_FILNOTACC
                                      = 000000AC
SS$_NORMAL
                                      = 00000001
SYSSQIOW
                                        ******
                                                    GX
                                                          02
UCB$L_AMB
UCB$L_DEVCHAR
UCB$L_DEVCHAR2
UCB$L_PID
UCB$W_REFC
                                      = 00000060
                                      = 00000038
                                      = 0000003C
                                      = 00000020
                                      = 0000005C
                                                             Psect synopsis!
PSECT name
                                       Allocation
                                                               PSECT No.
                                                                             Attributes
    ABS
                                       00000000 (
                                                         0.)
                                                               00 (
                                                                      0.)
                                                                             NOPIC
                                                                                              CON
                                                                                                     ABS
                                                                                                            LCL NOSHR NOEXE NORD
                                                                                                                                      NOWRT NOVEC BYTE
$ABS$
                                                                      1.)
                                                                            NOPIC
                                       00000000
                                                         0.)
                                                               01
                                                                   (
                                                                                      USR
                                                                                              CON
                                                                                                     ABS
                                                                                                            LCL NOSHR
                                                                                                                         EXE RD
                                                                                                                                         WRT NOVEC BYTE
AEXENONPAGED
                                       000000CA
                                                                                              CON
                                                                                                            LCL NOSHR
                                                                                                                          EXE
                                                                                                                                 RD
                                                                                                                                         WRT NOVEC BYTE
                                                         Performance indicators !
Phase
                               Page faults
                                                 CPU Time
                                                                   Elapsed Time
 ----
                                       30
110
 Initialization
                                                 00:00:00.04
                                                                   00:00:01.77
                                                 00:00:00.49
00:00:13.84
00:00:02.46
00:00:02.29
                                                                   00:00:05.71
 Command processing
                                       391
                                                                   00:00:40.77
Pass 1
                                                                   00:00:09.56
 Symbol table sort
                                        67
                                                                   00:00:05.78
Pass 2
```

Page

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00:00:00.07

16-SEP-1984 01:55:33 VAX/VMS Macro V04-00 Š-ŠĒP-1984 Ö3:50:20 [SYS.SRC]SÝSDASSGN.MAR;1

Symbol table output

Psect synopsis output

Cross-reference output

00:00:00.07 00:00:00.02 00:00:00.00 00:00:19.21 613

00:00:00.02 00:00:00.00 00:01:03.69

Assembler run totals

The working set limit was 1500 pages. 79726 bytes (156 pages) of virtual memory were used to buffer the intermediate code. There were 90 pages of symbol table space allocated to hold 1600 non-local and 10 local symbols. 265 source lines were read in Pass 1, producing 16 object records in Pass 2. 26 pages of virtual memory were used to define 25 macros.

Macro library statistics !

Macro library name

Macros defined

_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

11 11 22

1758 GETS were required to define 22 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SYSDASSGN/OBJ=OBJ\$:SYSDASSGN MSRC\$:SYSDASSGN/UPDATE=(ENH\$:SYSDASSGN)+EXECML\$/LIB

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